



Zero Net Energy Focus Southern California Edison Company

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Savings In California Buildings***

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Some SCE Zero Net Energy Projects...

- ZNE Production Homes Retrofits
 - In-situ study of grid impacts associated with ZNE homes (part of Irvine Smart Grid Demo)
- Power Modeling Study to Assess Grid Impacts
 - Modeling study to determine impacts associated with widespread adoption of single-phase inverters associated with ZNE
- Single Family Model Home(s) Targeting ZNE or Near ZNE
 - Working with production home builders to offer a ZNE Model Home
- ABC Home
 - Student built demonstration home
- Big Box Retail Retrofit
 - Partnering with a national Big Box chain to demonstrate ZNE, or near ZNE, for existing construction
- ZNE Lab
 - New Technology Testing Center to be built in Irwindale, part of ETP 2010-12 filing, assessing residential issues
- ZNE Blog
 - <http://zeronetenergy.blogspot.com>; capturing SCE's, and other's, ZNE activities



Issues regarding Zero Net Energy

- Definitional issues... *zero net energy*
 - Site energy versus source
 - Integration of transportation/ water/ embodied energy
 - The Market
 - Maximize economic opportunities... near ZNE (Conservation)
 - Generation source
- Concerns regarding “the grid”
 - PVs and saturation and grid stability
 - EVs and saturation and grid stability
 - Smart Meter’s
 - Demand Response/ load management... zero demand